

Appl. No. 10/580,232
Amendment dated: December 4, 2009
Reply to OA of: September 2, 2009

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1(previously presented). Mixture of isolated or synthetic unlabelled affinity molecules in a liquid carrier comprising at least two different affinity molecules, each with affinity for a predetermined analyte, for use in a single or multi flow cell piezoelectric crystal micro balance apparatus.

2(original). Mixture according to claim 1, wherein each isolated or synthetic affinity molecule forms together with the predetermined analyte an interaction pair selected from the group consisting of anion-cation, antibody-antigen, receptor-ligand, enzyme-substrate, oligonucleotide-oligonucleotide with complementary sequence, oligonucleotide-protein, oligonucleotide-cell, and peptide nucleic acid (PNA) oligomer-polynucleotide, wherein the polynucleotide may be selected from the group consisting of RNA, DNA and PNA polymers complementary to the PNA oligomer.

3(previously presented). Mixture according to claim 1, wherein each isolated or synthetic affinity molecule is selected from the group consisting of monospecific polyclonal or monoclonal antibodies, antibody fragments or derivatives thereof each with affinity for a predetermined analyte antigen.

4(original). Mixture according to claim 3, wherein the concentration of each of the different affinity molecules is between 0.01-0.8 mg/ml of the liquid carrier.

5(previously presented). Mixture according to claim 1, wherein the liquid carrier is water and additionally contains a buffer, stabilizers and/or preservatives.

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6(previously presented). Mixture according to claim 1, wherein each of the analytes is selected from the group consisting of different narcotics selected from the group consisting of cocaine, heroin, amphetamine, methamphetamine, cannabinois, tetrahydrocannabinols (THC), and methylenedioxy-N-methylamphetamine (ecstasy).

7-15(canceled).

16(previously presented). Kit containing a stable or stabilized mixture according to claim 1.

17-24(canceled).

25(previously presented). Mixture according to claim 1, wherein each of the analytes is selected from the group consisting of different explosives selected from the group consisting of trinitrotoluene (TNT), dinitrotoluene (DNT), hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX), octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazine (HMX), pentaerythritol tetranitrate (PETN), and nitroglycerine (NG).

26(previously presented). A mixture of isolated or synthetic unlabelled antibodies in a liquid carrier comprising at least two different antibodies, each with affinity for a predetermined analyte antigen.

27(previously presented). A mixture according to claim 26, wherein the liquid carrier is water and additionally contains a buffer, stabilizers and/or preservatives.

28(previously presented). A mixture according to claim 27, wherein the concentration of each of the different antibodies is between 0.01-0.8 mg/ml of the liquid carrier.

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29(previously presented). A mixture according to claim 27 which contains no analyte antigen.

30(previously presented). A mixture of isolated or synthetic unlabelled antibodies in a liquid carrier consisting essential of at least two different antibodies, each with affinity for a predetermined analyte antigen.

31(currently amended). A mixture according to claim 30, wherein at least one of the analytes is selected from the group consisting of different explosives selected from the group consisting of trinitrotoluene (TNT), dinitrotoluene (DNT), hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX), octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazine (HMX), pentaerythritol tetranitrate (PETN), and nitroglycerine (NG) and wherein at least one of the analytes is selected from the group consisting of different narcotics selected from the group consisting of cocaine, heroin, amphetamine, methamphetamine, cannabinois, tetrahydrocannabinols (THC), and methylenedioxy-N-methylamphetamine (ecstasy).[[.]]

32(previously presented). A mixture according to claim 31, wherein the liquid carrier is water and additionally contains a buffer, stabilizers and/or preservatives for use in a single or multi flow cell piezoelectric crystal micro balance apparatus.

33(new). A kit according to claim 16, containing a stabilized mixture of affinity molecules and wherein at least one of the affinity molecules is for a predetermined analyte which is an explosive selected from the group consisting of trinitrotoluene (TNT), dinitrotoluene (DNT), hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX), octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazine (HMX), pentaerythritol tetranitrate (PETN), and nitroglycerine (NG) and wherein at least one of the affinity molecules for the predetermined analyte is a narcotic selected from the group consisting of cocaine, heroin, amphetamine, methamphetamine, cannabinois, tetrahydrocannabinols (THC), and methylenedioxy-N-methylamphetamine (ecstasy).

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34(new). A kit according to claim 33 wherein the mixture is contained in a vial.